#### PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing See form PCT/ISA/210 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below VALITEC CAS 3 International application No. International filing date (day/month/year) Priority date (day/month/year) 07.05.2004 26.04.2005 PCT/FR2005/001027 International Patent Classification (IPC) or both national classification and IPC H05F3/04 Applicant VALITEC This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/EP

Telephone No.

Facsimile No.

International application No.
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Bo	k No. I	Basis of this opinion					
1.	With filed	regard to the language, this opinion has been established on the basis of the international application in the language in which it was , unless otherwise indicated under this item.					
		This opinion has been established on the basis of a translation from the original language into the following language					
	_	, which is the language of a translation furnished for the purposes of international search (under					
		Rule 12.3 and 23.1(b)).					
2.	With	n regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ntion, this opinion has been established on the basis of:					
	a.	type of material					
		a sequence listing					
		table(s) related to the sequence listing					
	b.	format of material					
		in written format					
		in computer readable form					
	c.	time of filing/furnishing					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
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3.	3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed of furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application a filed or does not go beyond the application as filed, as appropriate, were furnished.						
4.	Ad	ditional comments:					
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Bo	k No. V	Reasoned statemer citations and expla	it under Ru nations sup	ile 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement				
	Novelty (	N)	Claims	1-22	YES
			Claims		NO.
	Inventive	step (IS)	Claims	1-22	YES
			Claims		NO
	Industrial	applicability (IA)	Claims	1-22	YES
	•		Claims		NO

- 2. Citations and explanations:
  - 1 Reference is made to the following documents:
    - D1: US 4 417 293 A (LARIGALDIE ET AL) 22 November 1983 (1983-11-22)
    - D2: US 3 317 790 A (WHITBY KENNETH T) 2 may 1967 (1967-05-02)
    - D3: WO 00/74188 A (MERCIER JOEL; GENIE ET ENVIRONNEMENT (FR) 7 December 2000 (2000-12-07)
    - D4: US 4 542 434 A (GEHLKE ET AL) 17 September 1985 (1985-09-17)
  - 2 Document D1, which is considered to represent the most relevant prior art, describes (the references in parentheses apply to this document) a static electricity eliminator comprising at least one nozzle having a body defining a supersonic jet (122) for pressure reduction of a compressed gas, a corona tip (125) located close to the neck (124) of the jet and an electricity supply circuit (64) connected to the tip of the corona.
  - 2.1 The subject matter of the independent claim 1 differs from the subject matter disclosed by D1 in that the corona tip constitutes a surgical needle made of steel with chrome, the tip of which has a diameter of less than

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Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

30 micrometres.

- 2.2 The subject matter of claim 1 is therefore novel (PCT Article 33(2)). The problem to be solved by the present invention can be considered to be increasing the effectiveness of the elimination of electrostatic charges, particularly for the treatment of polymers.
- 2.3 There is no reference to the material, type or diameter of the needle in D1.
- 2.4 Document D2 describes the possibility of using a stainless steel needle (page 9, lines 13-15) the diameter of which is several micrometres (page 19, line 21) in a device for generating ions which makes it possible to maintain a specific ionic density on the interior of premises. This device is not suitable for the elimination of electrostatic charges in an industrial environment. It does not reveal the use of a surgical needle as the emitter.
- 2.5 Document D3, describes (the references in parentheses apply to this document) the elimination of electrostatic charges in the treatment of plastics (see column 3, line 46) and the use of a needle of about 10 micrometres diameter in a sonic jet nozzle (claim 1). D1 does not indicate the type and the material of the needle nor the use of a supersonic jet.
- 2.6 Document D4, describes (the references in parentheses apply to this document) the use of surgical needle (column 5, line 61) in an ion generator used for the

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control of concentrations of ions in open spaces (rooms of a house). It is not suitable for electrostatic discharge in an industrial environment such as in the treatment of polymers. It does not indicate the diameter of the needle and does not relate to the use of a supersonic jet.

3 The combination of features presented in claim 1, in particular a surgical needle made of steel with chrome, the point of which has a diameter of less than 30 micrometres is not explicit or mentioned implicitly in the prior art (D1-D4).

The solution to the problem proposed (paragraph 2.2) in claim 1 of the present application is therefore considered to involve inventive step (PCT Article 33(3)).

4 Claims 2-22 depend on claim 1 and therefore also satisfy as such the requirements of the PCT with regard to novelty and inventive step.